Appendix C

Resource Maps/Figures

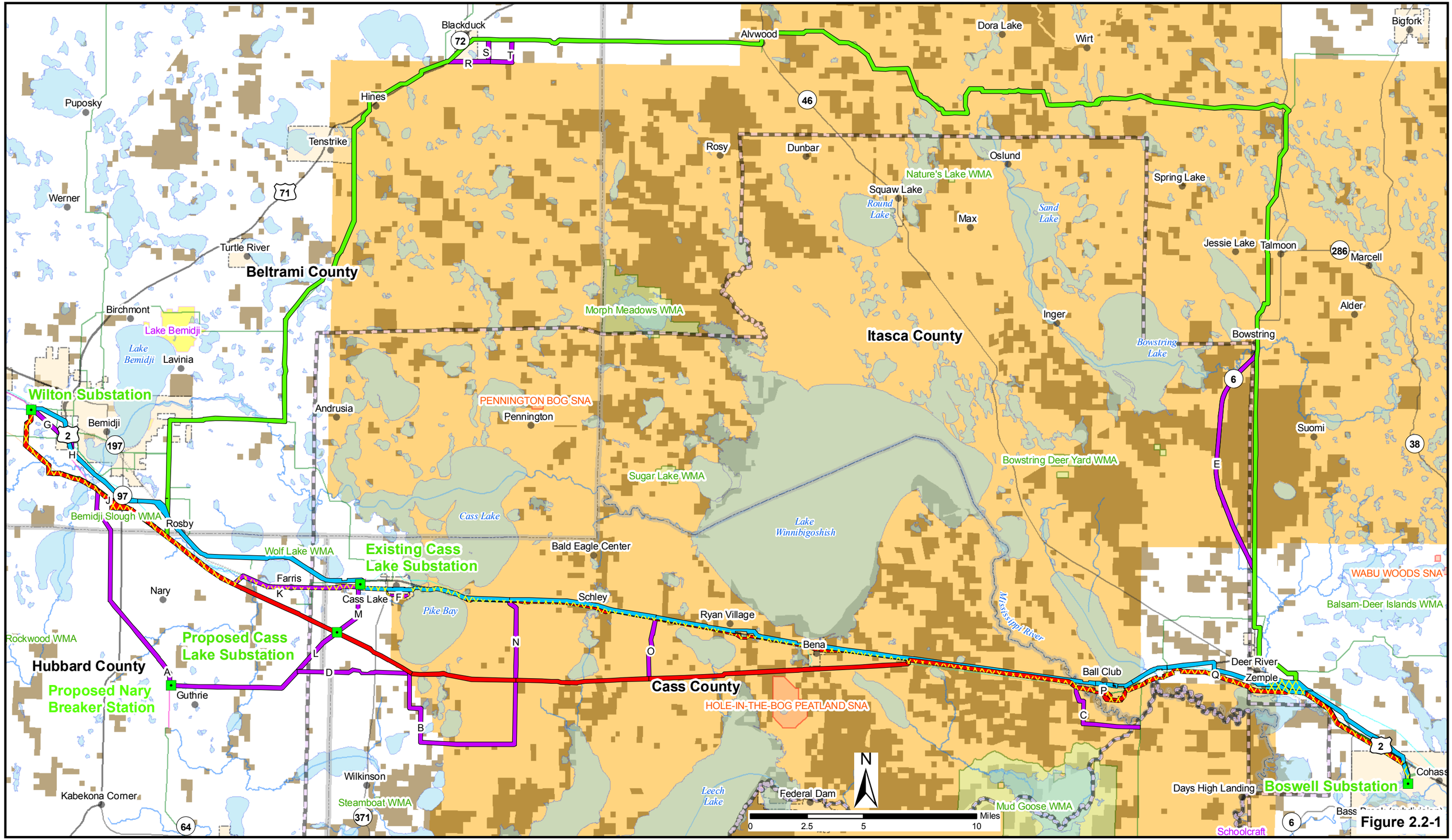


Figure 2.2-1

Alternative Overview Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010

Wilton Substation

G

H

I

H

Bemidji

Lake Bemidji

Lake Bemidji

Beltrami County

A

J

Bemidji Slough WMA

2

71

71

2

197

2

97

71

N

0 0.25 0.5 1 Miles

Figure 2.2-1a

Substation/Breaker Station

69 kV - Existing Transmission Lines

115 kV - Existing Transmission Lines

230 kV - Existing Transmission Lines

Enbridge Pipeline

Great Lakes Gas Pipeline

Leech Lake Reservation

County Boundary

National Forest System Lands

MN DNR State Forest

MN DNR SNA

MN DNR WMA

MN DNR State Park

Route Alternative 1

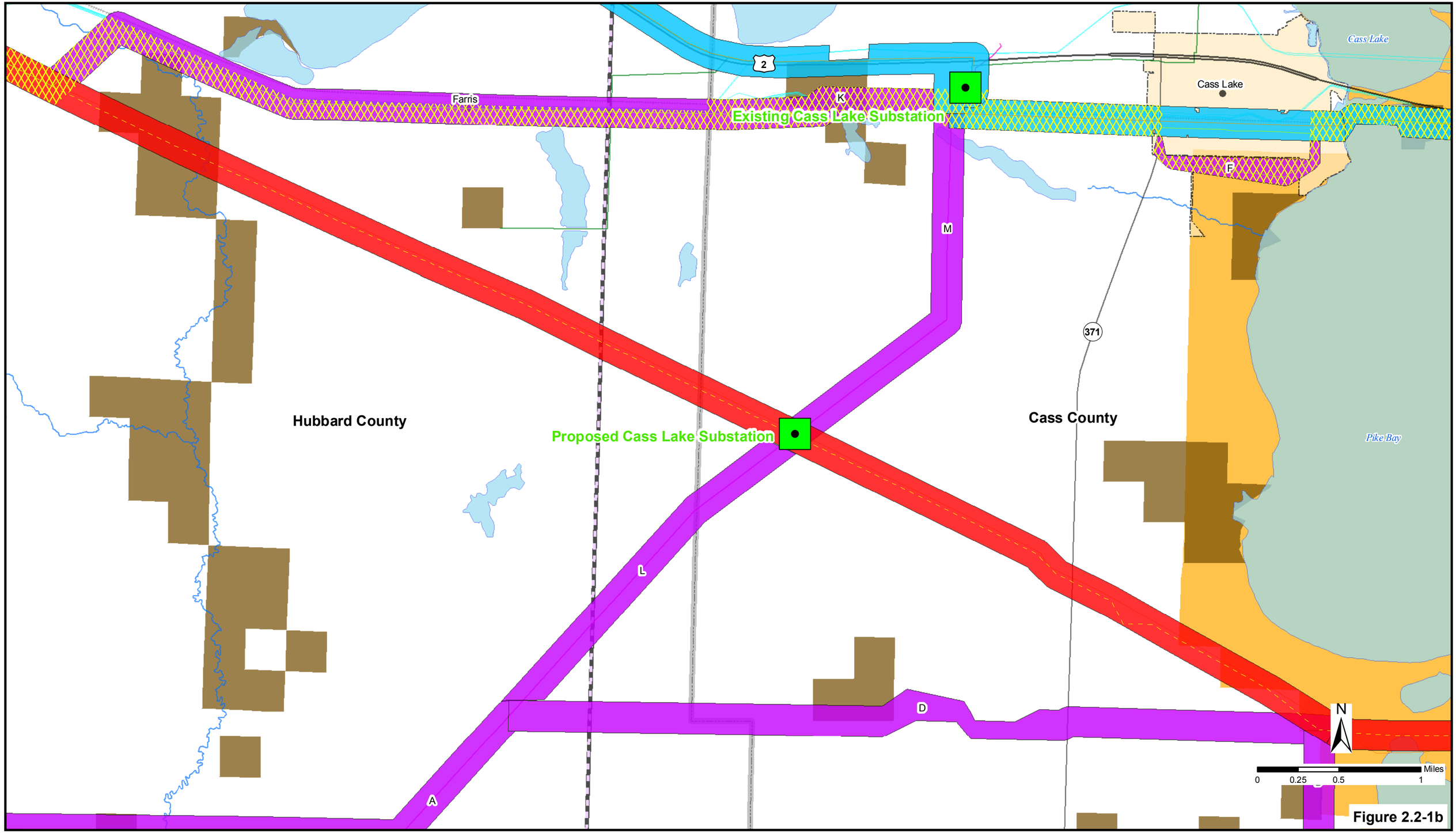
Route Alternative 2

Route Alternative 3

Segment Alternatives

Route Alternative 4

Wilton Area Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010



Substation/Breaker Station
69 kV - Existing Transmission Lines
115 kV - Existing Transmission Lines
230 kV - Existing Transmission Lines
Enbridge Pipeline
Great Lakes Gas Pipeline
Leech Lake Reservation
County Boundary
National Forest System Lands
MN DNR State Forest
MN DNR SNA
MN DNR WMA
MN DNR State Park
Route Alternative 1
Route Alternative 2
Route Alternative 3
Segment Alternatives
Route Alternative 4

Alternative Route Segments D, F, K, L, and M
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power

September 2010

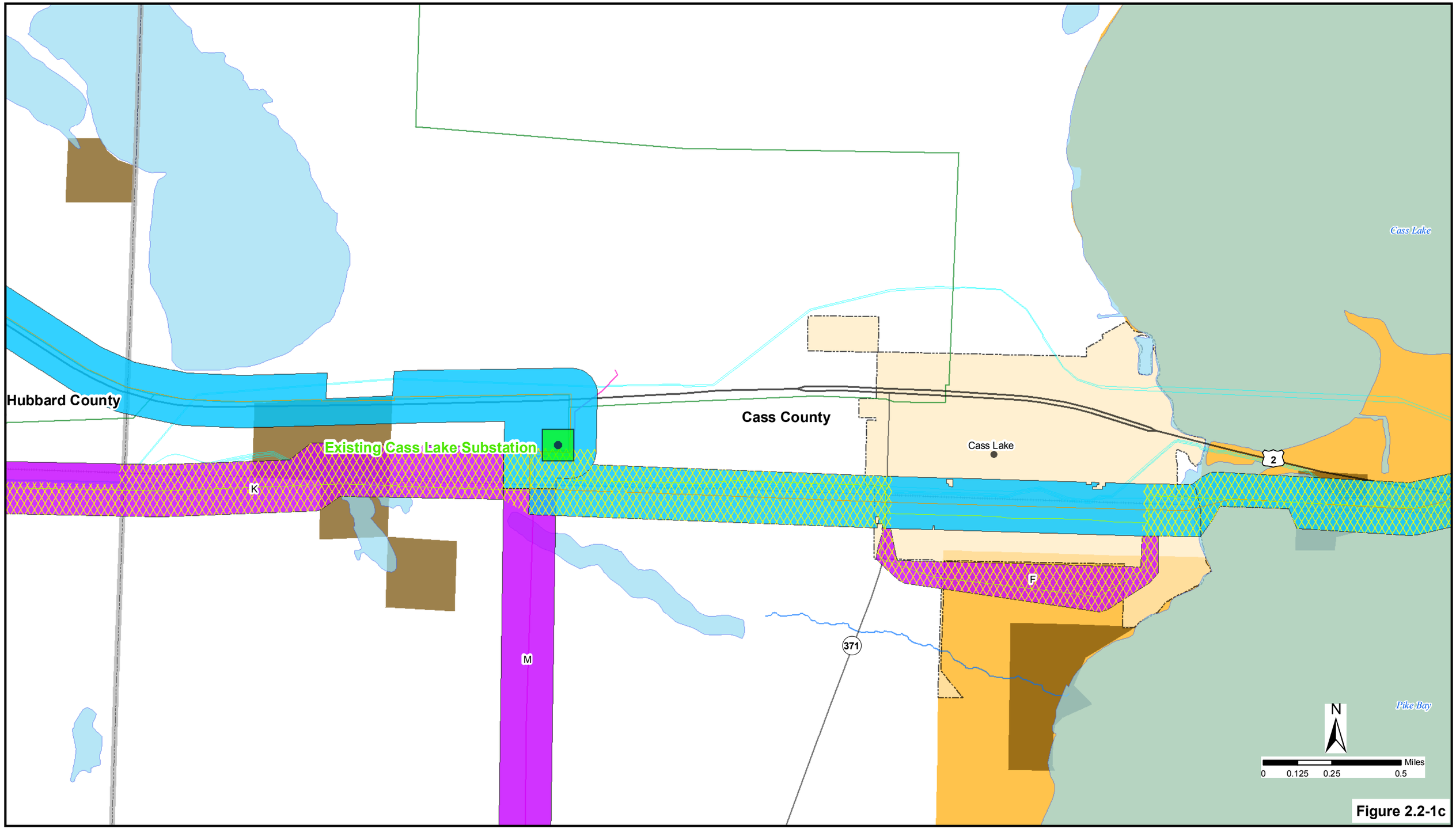


Figure 2.2-1c

Substation/Breaker Station
69 kV - Existing Transmission Lines
115 kV - Existing Transmission Lines
230 kV - Existing Transmission Lines
Enbridge Pipeline
Great Lakes Gas Pipeline
Leech Lake Reservation
County Boundary
National Forest System Lands
MN DNR State Forest
MN DNR SNA
MN DNR WMA
MN DNR State Park
Route Alternative 1
Route Alternative 2
Route Alternative 3
Segment Alternatives
Route Alternative 4

Cass Lake Substation Area Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power

September 2010

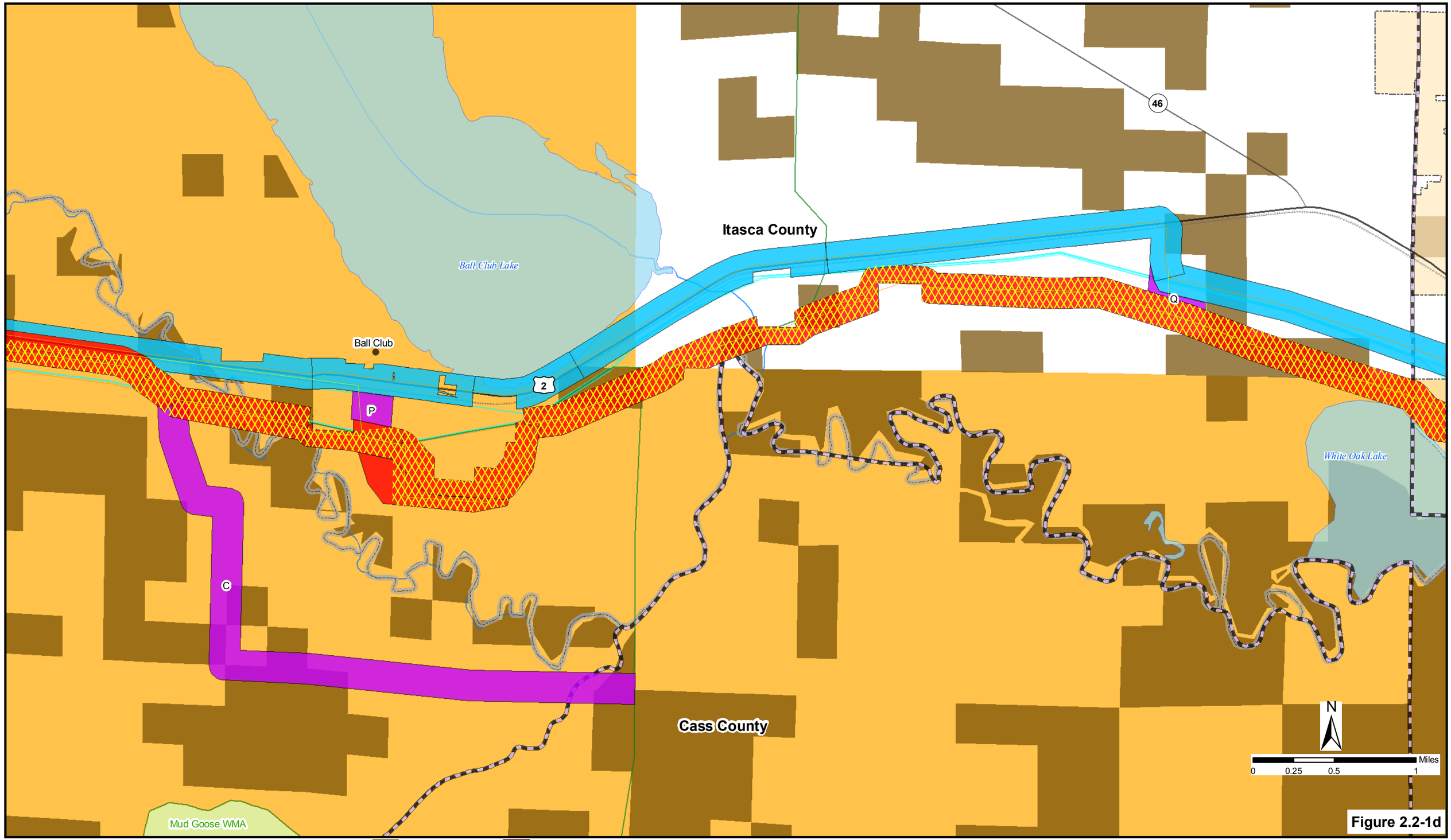
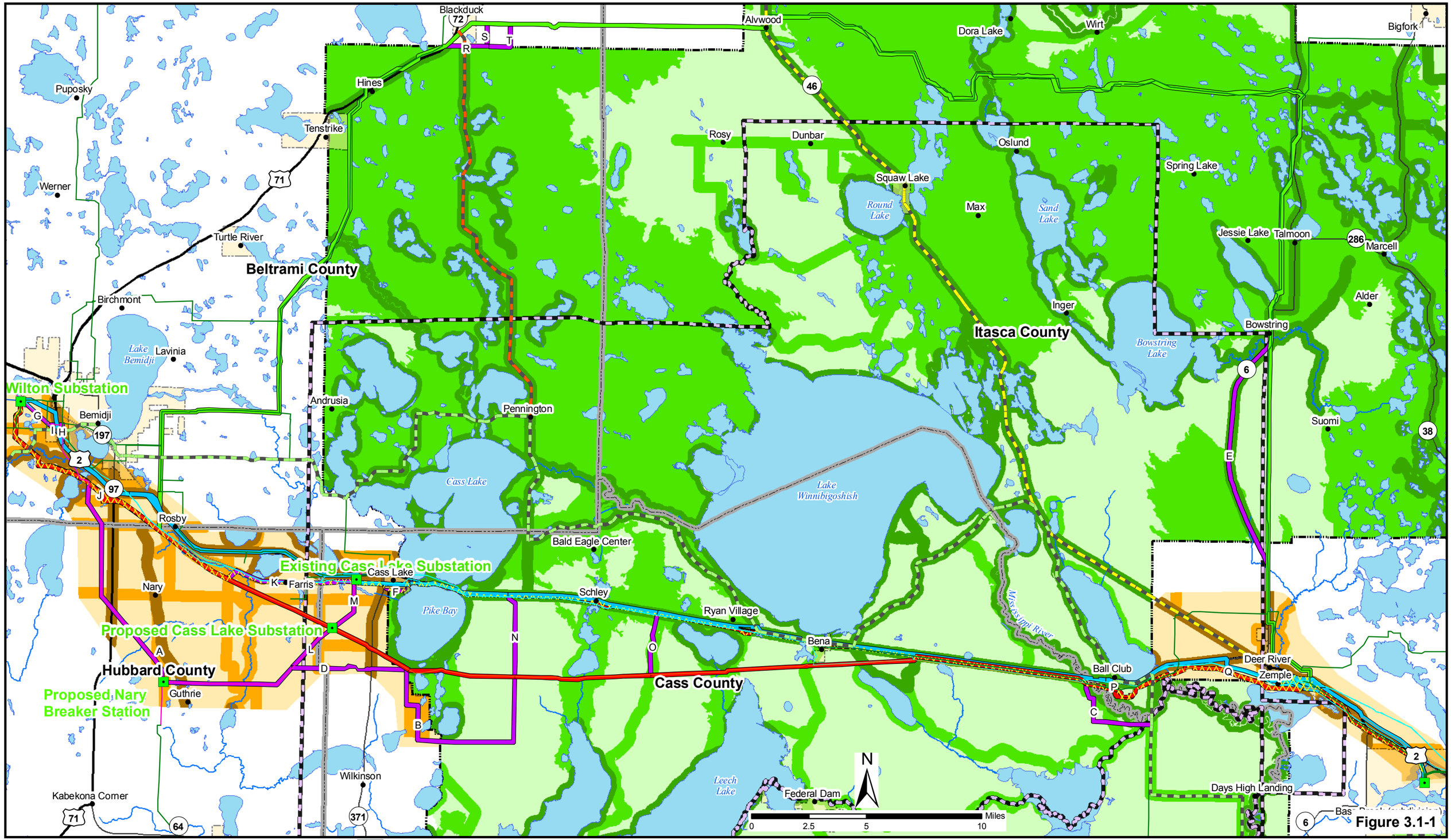


Figure 2.2-1d

69 kV - Existing Transmission Lines
115 kV - Existing Transmission Lines
230 kV - Existing Transmission Lines
Enbridge Pipeline
Great Lakes Gas Pipeline
Leech Lake Reservation
County Boundary
National Forest System Lands
MN DNR State Forest
MN DNR SNA
MN DNR WMA
MN DNR State Park
Route Alternative 1
Route Alternative 2
Route Alternative 3
Segment Alternatives
Route Alternative 4

Alternative Route Segments C, P, and Q
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010



Scenic Integrity Objectives Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010

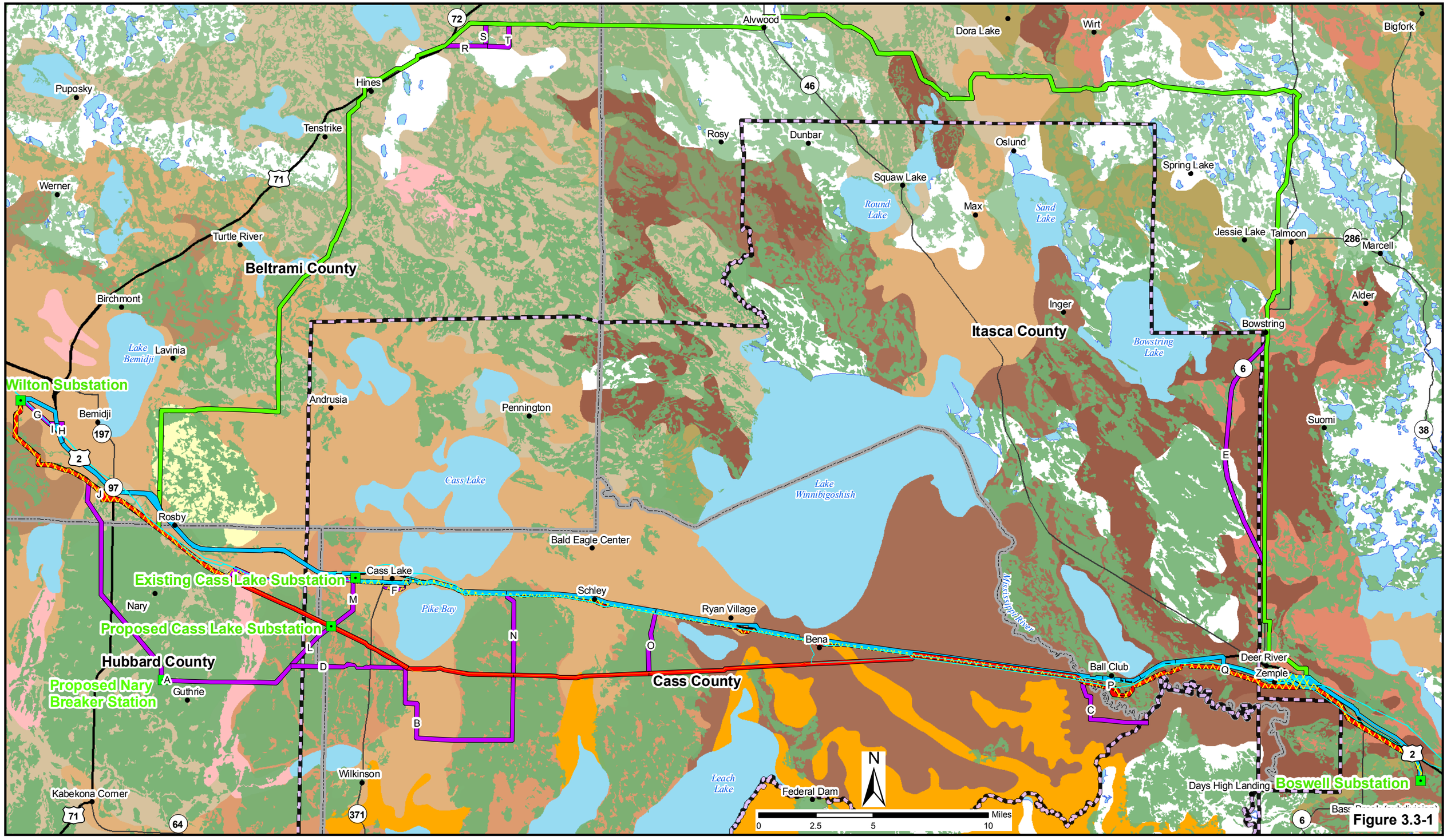


Figure 3.3-1

Substation/BreakerStation
Enbridge Pipeline
Great Lakes Gas Pipeline
Leech Lake Reservation
County Boundary
Route Alternative 1
Route Alternative 2
Route Alternative 3
Segment Alternatives
Route Alternative 4

Statsgo Soil Associations

Other Soil Association
ANDRUSIA-GRAYCALM-MARQUETTE (MN027)
CATHRO-SEELYEVILLE-MARKEY (MN065)
CUTAWAY-SANDWICK-GREENWOOD (MN279)
GREENWOOD-RIFLE-CATHRO (MN473)
INDUS-TAYLOR-DALBO (MN277)
MENAHGA-GRAYCALM-MOOSELAKE (MN026)
NEBISH-SHOOKER-BELTRAMI (MN045)
RIFLE-TACOOSH-SEELYEVILLE (MN066)
SOL-NARY-STUNTZ (MN055)
WARBA-CUTAWAY-STUNTZ (MN015)
WATER (MNW)
ZIMMERMAN-COWHORN-MOOSELAKE (MN272)
Prime Farmland

Soils Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010

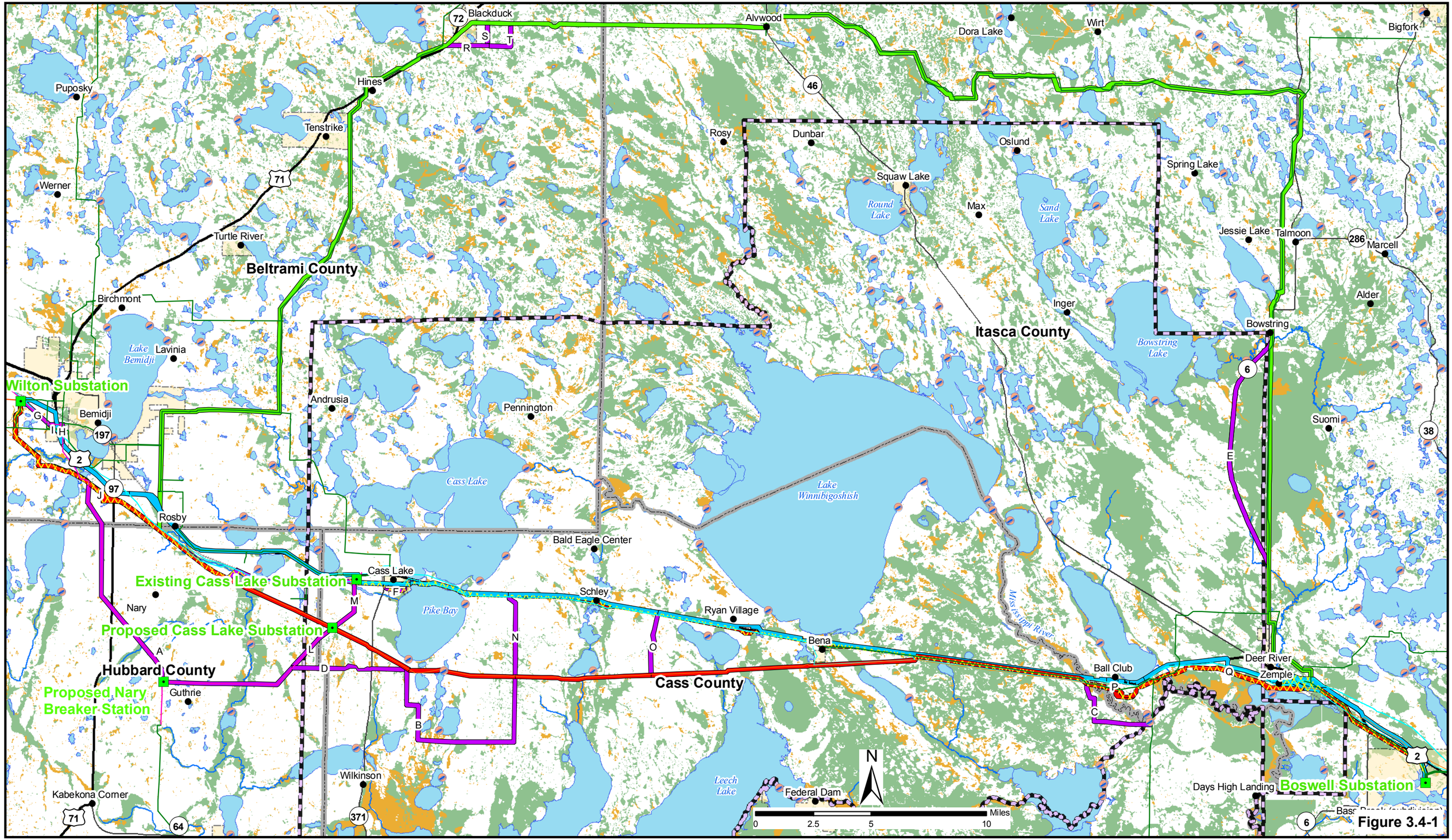
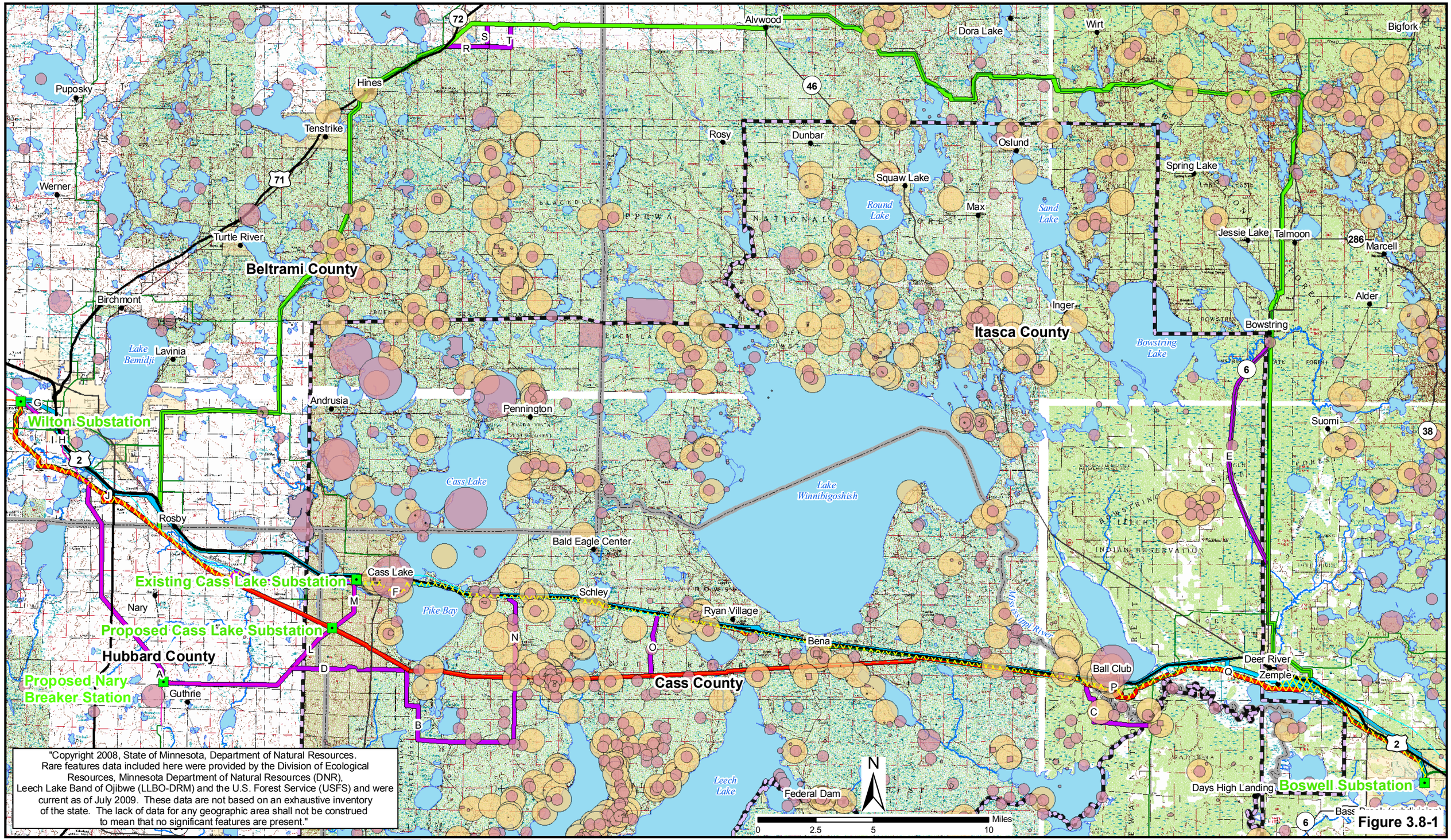


Figure 3.4-1

Substation/BreakerStation
69 kV - Existing Transmission Lines
115 kV - Existing Transmission Lines
230 kV - Existing Transmission Lines
Enbridge Pipeline
Great Lakes Gas Pipeline
Leech Lake Reservation
County Boundary
Urban Area
Route Alternative 1
Route Alternative 2
Route Alternative 3
Segment Alternatives
Route Alternative 4
Water Access
MN DNR PWI Streams
MN DNR PWI Basins
Emergent Wetland
Forested/Shrub Wetland

Surface Waters / Wetlands Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010

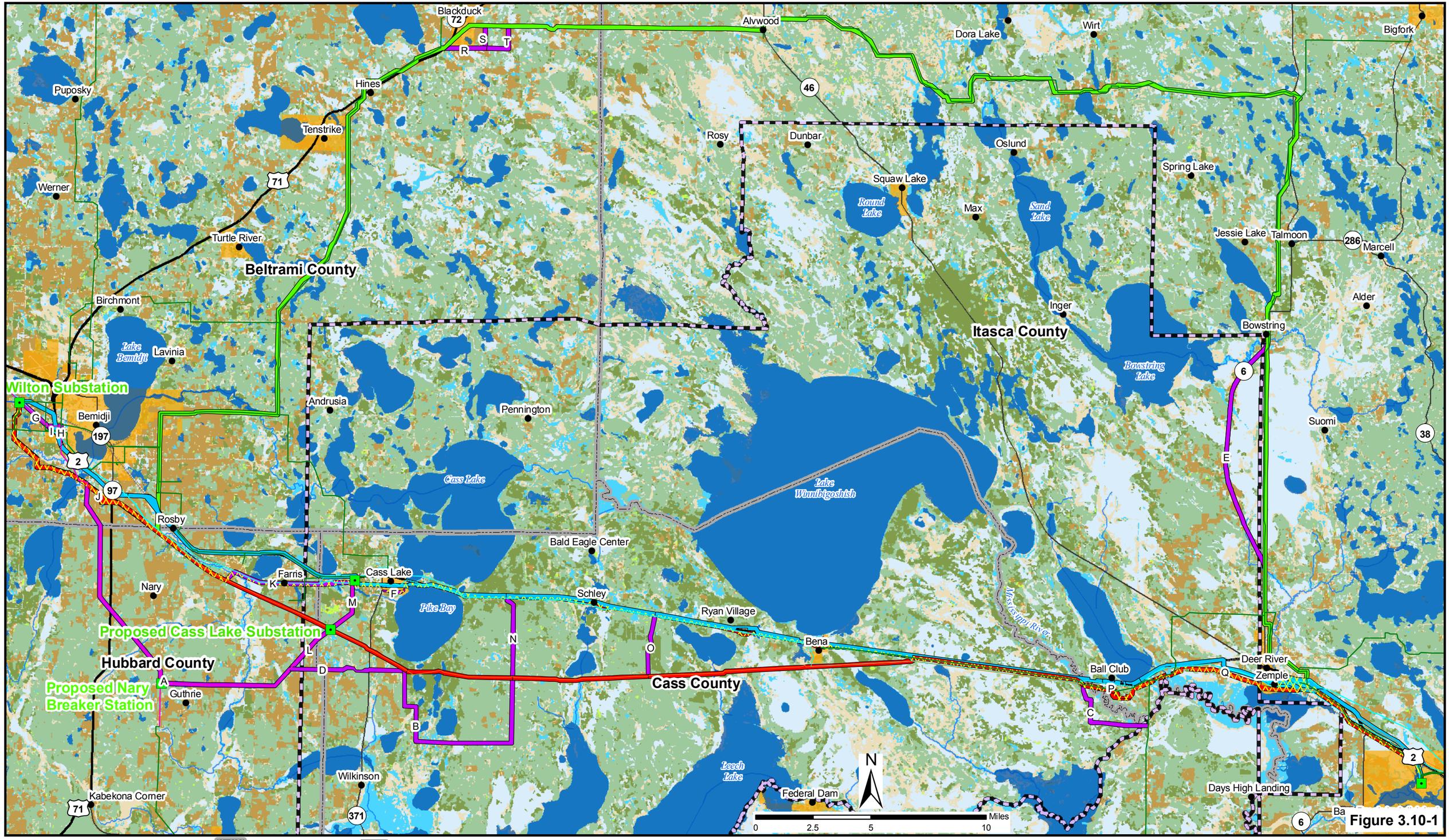


"Copyright 2008, State of Minnesota, Department of Natural Resources. Rare features data included here were provided by the Division of Ecological Resources, Minnesota Department of Natural Resources (DNR), Leech Lake Band of Ojibwe (LLBO-DRM) and the U.S. Forest Service (USFS) and were current as of July 2009. These data are not based on an exhaustive inventory of the state. The lack of data for any geographic area shall not be construed to mean that no significant features are present."

Figure 3.8-1

- Substation/BreakerStation
- 69 kV - Existing Transmission Lines
- 115 kV - Existing Transmission Lines
- 230 kV - Existing Transmission Lines
- MN DNR PWI Streams
- Route Alternative 1
- Route Alternative 2
- Route Alternative 3
- Segment Alternatives
- Route Alternative 4
- MN DNR PWI Basins
- Sensitive Resource (USFS & LLBO-DRM)
- Sensitive Resource (MNDNR & LLBO-DRM)

Sensitive Resources Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010



Substation/BreakerStation
69 kV - Existing Transmission Lines
115 kV - Existing Transmission Lines
230 kV - Existing Transmission Lines
County Boundary
Leech Lake Reservation
Route Alternative 1
Route Alternative 2
Route Alternative 3
Alternative Route Segments
Route Alternative 4
Woody Wetlands
Marsh
Upland Scrub
Conifer Forest
Deciduous Forest
Mixed Forest
Crop/Grass Land
Developed
Open Water

Land Cover Map
230kV Bemidji to Grand Rapids Transmission Line Project
Minnkota Power Cooperative,
Otter Tail Power Company, & Minnesota Power
September 2010